

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/892,727	06/27/2001	Scott Swix	60027.0018USU1/BS01040 4789		
	39262 7590 11/16/2007 MERCHANT & GOULD BELLSOUTH CORPORATION			EXAMINER	
P.O. BOX 2903 MINNEAPOLIS, MN 55402			AUSTIN, SHELTON W		
MINNEAPOLI	WINNEAFOLIS, WIN 33402		ART UNIT	PAPER NUMBER	
			2623		
			MAIL DATE	DELIVERY MODE	
			11/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/892,727	SWIX ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shelton Austin	2623				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply	/IO OFT TO EVEIDE AMOUTH!	O) OD THEETY (00) DAY(0				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated the control of t	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 16 At	ıgust 2007.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4-10,12-22,24-27 and 29-36</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1,2,4-10,12-22,24-27 and 29-36</u> is/are rejected.					
<u> </u>	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the $\mathfrak l$	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	aminer. Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>10/19/2007</u> . 6) Other:						

Application/Control Number: 09/892,727 Page 2

Art Unit: 2623

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/16/2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2, 4-10, 12-22, 24-27 and 29-36 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4-10, 12-22, 24-27 and 29-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Middeke et al. (US 6445907) in view of Herrbach et al. (US 6269150).

Art Unit: 2623

Regarding claim 1, Middeke et al. ("Middeke") teaches a method for analyzing the operation of a media delivery device (Col. 2, lines 1-20), the method comprising the steps of:

determining whether a network connection is functional (by monitoring whether a service request is received from the service center 28; Col. 6, lines 1-15);

determining whether a 1st diagnostic agent is functional, in response to a determination that the network connection is functional (by detecting a service request at step 124, Col. 6, lines 17-18);

causing the 1st diagnostic agent to collect diagnostic data associated with the media delivery device (STB), in response to a determination that the 1st diagnostic agent is functional (gathering diagnostic information; Col. 6, lines 19-30);

analyzing the diagnostic data to determine an operational problem associated with the media delivery device (STB) (service center analyses the received diagnostic information; Col. 10, lines 60-63 and service technician remotely trouble-shoot and reconfigured the receiver; Col. 10, lines 35-55); and

receiving a command in the first diagnostic agent to perform at least one of rebooting the media delivery device, upgrading an operating system in the media delivery device, and performing a remedial action related to the network connection, in response to a determination that the network connection is not functional (col. 10, lines 35-62—commands are sent to the receiver to mitigate reported problems, the commands including resetting the receiver and resetting customer preferences to factory defaults);

Art Unit: 2623

Middeke further discloses upon the diagnostic information has been transferred to the center, the service center can send commands to the receiver to reset the receiver to factory default (Col. 10, lines 35-41).

Middeke does not clearly disclose "removing the 1st diagnostic agent",
"uploading a second diagnostic agent to the media delivery device in response to a
determination that the first diagnostic agent is not functional" and "removing the 2nd
diagnostic agent."

Herrbach discloses, in similar art, that after each diagnostic process, a cleanup process is performed before another test case to run/upload (see Fig.2, step 42; Col. 5, lines 27-58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Middeke to remove the diagnostic application after each process, as taught by Herrbach so to provide a robust automated testing system as suggested (Col. 2, lines 10-48).

Regarding claim 2, Middeke in view of Herrbach further discloses the step of uploading the first diagnostic agent to the media delivery device (STB) over an alternative network connection, in response to a determination that the network connection is not functional (reads on Middeke in which the remote technician at the remote service, i.e., workstation 30, by analyzing the diagnostic information received from the receiver, Col. 3, lines 40-Col. 15, the remote technician able to determine whether or not the network connection is functional. In view of the result, the remote

Art Unit: 2623

technician able to reset the receiver to factory default including the first diagnostic agent that was pre-loaded by default based on the network communication status; Col. 10, lines 35-63; for example if the strength of the satellite transponder is weak, the only way to communicate between the receiver 24 and the remote service center 30 is through the communication line 32 of Fig. 1 so the technician able to troubleshoot the receiver 24).

Regarding claim 4, Middeke further discloses the step of remedying the operational problem (Col. 10, lines 35-42).

Regarding claim 5, "the step of uploading a second diagnostic agent to the media delivery device, in response to a determination that the network connection is not functional" is analyzed with respect to claim 1 in which Middeke's remote technician at the remote service, i.e., workstation 30, by analyzing the diagnostic information received from the receiver, Col. 3, lines 40-Col. 15, the remote technician able to determine whether or not the network connection is functional. In view of the result, the Middeke's remote technician in view of Herrbach able to uploading a second diagnostic agent to the media delivery device through another communication link.

Claim 6 is analyzed with respect to claim 1.

Art Unit: 2623

Regarding claim 7, Middeke further discloses wherein the performance problem is also associated with a 2nd device functionality connected to the media distribution device (Col. 3, lines 40-Co1.4, lines 15 that has plurality of status of plurality connected devices to the receiver, i.e., smartcard status.

Regarding claim 8, Middeke further discloses the media distribution device is a STB (see Fig. 2; Col. 4, lines 15-40).

Claim 9 is analyzed with respect to claim 1.

Regarding claim 10, Middeke further discloses wherein the intelligent diagnostic agent is executable in the system memory (Col. 6, lines 18-30).

Regarding claim 12, "wherein the diagnostic service center can determine whether the diagnostic agent is functional" is further by Middeke' as analyzed with respect to claim 1 in which the remote service, i.e., workstation 30, able to receive the diagnostic information from the receiver.

Regarding claim 13 is analyzed with respect to claim 1.

Regarding claim 14, Middeke further discloses wherein the communication link is a broadband communication (see Fig. 1).

Page 7

Regarding claim 15, Middeke in view of Herrbach does not clearly disclose the

use of an ADSL as communication link.

Official Notice is taken that the use of ADSL is notoriously well known in the art

for telephone companies to offer "video dial tone" over twisted pair. Therefore, it would

have been obvious to one of ordinary skill in the art at the time the invention was made

to modify Middeke in view of Herrbach to use ADSL as communication so to provide to

user an alternative way to receive video at high-speed over telephone twisted pair

network.

Regarding claim 16, Middeke further discloses wherein the communication link is

a satellite connection (see Fig. 1).

Claims 17 and 18 are analyzed with respect to claim 1.

Claim 19 is analyzed with respect to claim 2.

Regarding claim 20, Middeke further discloses a media delivery service provider

operative to transmit a media content stream to a media distribution device (see Fig. 1).

Claims 20, 21, 25, 26 are analyzed with respect to claim 1.

Art Unit: 2623

Claim 22 is analyzed with respect to claim 2.

Claim 24 is analyzed with respect to claim 4.

Regarding claim 27, Middeke does not clearly disclose "prior to deleting the at least one 1st diagnostic software agent further comprising conveying at least one 2nd diagnostic software agent in response to detecting that the at least one 1st diagnostic software agent is not operational on the at least one device at the remote site."

Herrbach discloses, in similar art, prior to deleting the at least one 1st diagnostic software agent further comprising conveying at least a second diagnostic agent to the receiver in response to detecting that the at least one first diagnostic software agent is not operational (see Fig.2, step 42; Col. 5, lines 27-58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Middeke diagnostic system to further uploading 2nd diagnostic agent, as taught by Herrbach so to troubleshoot or narrow down the cause of a failure.

Claim 29 is analyzed with respect to claim 2.

Regarding claim 30, Middeke further discloses wherein the at least one 2nd communication path comprises a wireless link (Col. 3, lines 30-32).

Art Unit: 2623

Regarding claim 31, Middeke further discloses wherein the wireless link comprises satellite communication (Col. 3, lines 30-32).

Regarding claim 32, Middeke in view of Herrbach further discloses wherein code related to the at least one 1st diagnostic software agent is stored in the at least one device at the remote site for diagnostic testing and is later removed to allow more storage during an operational condition of the at least one device (see analysis of claim 1).

Regarding claim 33, Middeke further discloses wherein the at least one first diagnostic software agent is interactive with a customer through a presentation device (Col. 4, lines 60-67+).

Regarding claim 34, Middeke (Col. 3, lines 40-Col. 4, lines 15) in view of Herrbach further discloses the step of entering identification of the media delivery device in a service log.

Regarding claim 35, Middeke (Col. 4, lines 48-Col. 5, lines 13) in view of Herrbach (see analysis of claim 1) further discloses wherein entering the identification of the media delivery device is performed autonomously by the diagnostic agent.

Art Unit: 2623

Regarding claim 36, Middeke in view of Herrbach (Col. 3, lines 15-21) further discloses "presenting a user interface over the media presentation device; and receiving input from a user via the user interface."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelton Austin whose telephone number is (571) 272-9385. The examiner can normally be reached on Monday through Thursday from 8:00-5:30. The examiner can also be reached on Fridays from 9:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant, whose telephone number is (571) 272-7294, can be reached on Monday through Friday from 7:30-5:00. The supervisor can also be reached on alternate Fridays from 9:00-4:00. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shelton Austin

Art Unit: 2623

CHRISTOPHER GRANT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600